

Serial No. 10/828,745
Amdt. Dated September 5, 2006
Reply to Office action of June 5, 2006

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-30. (canceled)

31. (new) A system for measuring relative position of fixed or slow-moving points in close proximity comprising:

- at least one GNSS receiver;
- a first antenna in operable communication with said GNSS receiver and configured to receive a first plurality of satellite signals;
- a second antenna in operable communication with one of said GNSS receiver or a second GNSS receiver and configured to configured to receive a second plurality of satellite signals;
- said antennas having known locations relative to each other;
- an orientation device adapted for determining a relative orientation of said system based on the locations of said antennas relative to each other;
- a clock utilized by said one or more receivers; and
- a position solution processor adapted for determining an earth-fixed (absolute) position utilizing signals from at least three unique satellites, said signals being received by either or both of said antennas and said processor using unknowns corresponding to X and Y coordinates and said clock for determining a position solution.

32. (new) The system according to claim 31, which includes:

- a second receiver connected to said second antenna.

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33. (new) The system according to claim 31, which includes:
one of said antennas having an earth-fixed (absolute) location; and
the location of said other antenna being determined from the location of said one antenna
and the orientation of said system.

34. (new) The system according to claim 31 wherein a common clock is shared
by said receivers.